

Forming an equation from a story

WHAT THIS LESSON TEACHES

To turn a story into an **equation**, give the unknown a **letter**, then write what the story says using = and the operations (+, −, ×, ÷).

→ *'I think of a number, add 4, and get 11.'* → $n + 4 = 11$, so $n = 7$.

→ *'Three times my number plus 2 equals 17.'* → $3n + 2 = 17$, so $n = 5$.

→ *'I share €30 between my brother and me. He gets €6 more than me.'* → $n + (n + 6) = 30$, so $n = 12$.

ANSWER KEY

a) $n + 4 = 11 \rightarrow n = 7$.

Q1: $x = 9$

b) $3n + 2 = 17 \rightarrow n = 5$.

Q2: $x = 7$

c) $n + (n + 6) = 30 \rightarrow 2n = 24 \rightarrow n = 12$ (you get 12, friend gets 18).

Q3: $x = 10$

Q4: $x = 22$

EXTENSION SHEET · STRETCH ANSWERS

S1: $x = 19$

S4: $x = 26$

S2: $x = 8$

S5: $x = 12$

S3: $x = 11$